

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
18 March 2004 (18.03.2004)

PCT

(10) International Publication Number
WO 2004/022972 A1

(51) International Patent Classification⁷: **F04B 35/04, B06B 1/06**

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(21) International Application Number:
PCT/SG2003/000175

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(22) International Filing Date: 24 July 2003 (24.07.2003)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
200205376-7 4 September 2002 (04.09.2002) SG

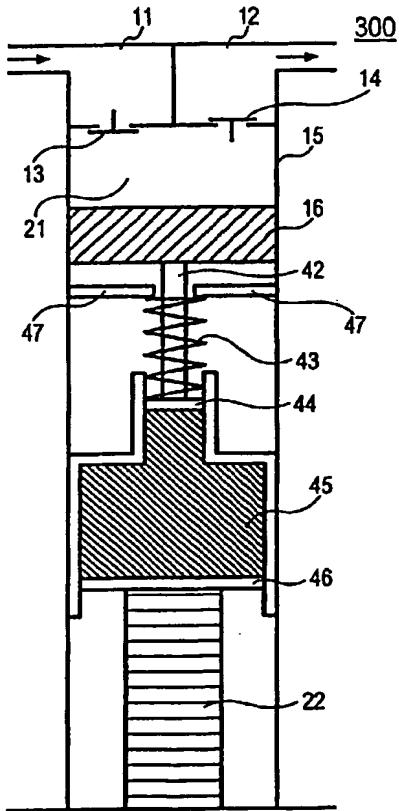
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[Continued on next page]

(54) Title: PIEZO-ELECTRIC COMPRESSOR WITH DISPLACEMENT AMPLIFIER



(57) **Abstract:** A compressor (300) for successive suction and discharge of a compressible fluid, thereby increasing fluid pressure of the compressible fluid in a substantially closed chamber, the compressor (300) comprising: at least one piezoelectric element (22); a primary displacement member (46) coupled to the at least one piezoelectric element (22); a secondary displacement member (44) coupled to the piston (16); and a non-compressible fluid (45) disposed to fill a fixed predetermined volume between the primary displacement member (46) and the secondary displacement member (44); wherein electrical actuation of the piezoelectric element (22) is controllable to displace the primary displacement member (46) by a predetermined distance, being coupled via the non-compressible fluid (45) to displace the secondary displacement member (44) by an amplified distance based upon the fixed predetermined volume.

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